Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims

in the application:

Listing of Claims:

1. (currently amended) A superconducting wire rod filled with or interiorly

including a <u>first</u> superconductor containing a boron <u>magnesium diboride</u> (MgB₂),

wherein a metal powder is added to a super-conducting material included in said

the superconducting wire rod, said the metal powder is selected from at least one

of an indium, a tin, and a lead, an iron, a magnesium and an aluminum, said the

metal power having an average grain diameter equal to or less than 20 µm is 5 to

25 vol% dispersed in said the superconducting material, a density of the

superconducting material included in the superconducting wire rod after a final

work is equal to or more than 90% a theoretical density, and a critical current

density is equal to or more than 1000 A/cm².

2. (currently amended) A superconducting wire rod as claimed in claim 1,

wherein a defect portion having an area equal to or more than 10 mm² does not

exist over an entire length of the superconducting wire rod, on a surface of said

the superconducting wire rod.

3. (currently amended) A superconducting wire rod as claimed in claim 1,

having an allowable bending strain rate s of 0.8% or more, wherein s is defined

as $\varepsilon = t/2r \times 100$, wherein t is the entire thickness of the superconducting wire,

and r is the radius of bending, and wherein the superconducting wire, when

bent, is in the case that a bending strain rate capable of maintaining at least a

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eritical current density Je(1) 90% of the equal to or more than a critical current

density Je(0) at a time when no bending is applied to the wire rod-is defined as

an allowable bending strain rate, the allowable bending strain rate c (%) (c =

(t/2r) x 100) is equal to or more than 0.8%, on the assumption that an entire

thickness of said superconducting wire rod is set to t, a radius of bending is set to

r, and a rate of bending strain is set to c.

4. (currently amended) A superconducting wire rod as claimed in claim 1,

wherein said the first superconductor containing the boron magnesium diboride

(MgB₂) is made complex compound complexed with a different kind of second

superconductor.

(currently amended) A superconducting wire rod as claimed in claim 4, 5.

wherein said different kind of the second superconductor is a niobium titanium

superconductor.

6. (currently amended) A connection for connecting a first superconducting

wire rod with a second superconducting rod as claimed in claim 1, wherein the

connection between the superconducting wire rods mentioned above is achieved

by bring one end of the first rod in close proximity to one end of the second rod,

and applying or coating the ends with MgB2 powder using a connecting method

corresponding to a bonding via the superconductor containing the boron

magnesium diboride.

7. (withdrawn) A method of producing a superconducting wire rod

comprising:

a step of mixing a metal power having an average grain diameter

equal to or less than 20 µm and selected from at least one of an indium, a tin, a

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lead, an iron, a magnesium and an aluminum of 5 to 25 vol% to a superconducting powder containing a boron so as to produce a mixed powder;

> a step of charging said mixed powder to a metal pipe; and a step of wiring and/or rolling said metal pipe,

wherein a density of a superconducting material contained in the superconducting wire rod after a final process is equal to or more than 90%, and a critical current density is equal to or more than 1000 A/cm².